**Amendments to the Claims:** 

This listing of claims will replace all prior versions, and listings of claims in the

application. Applicants have submitted a new complete claim set showing any marked up claims

with insertions indicated by underlining and deletions indicated by strikeouts and/or double

bracketing.

**Listing of Claims:** 

1. (Currently amended) An illuminator <u>system</u> for a flat-panel display, comprising:

a tapered slab-waveguide (1)-co-extensive with the display,

a plurality of light sources (2-4)each arranged to inject light at a different angle into an

edge of the waveguide, wherein so that light injected from each of the light sources it-emerges at

different positions on a over the face of the waveguide based on the injection angle

corresponding to each light source, and

means for scanning the emerging light associated with a light source injected into the

wedgeonto a portion of the display, wherein a position of the portion of the display corresponds

to the position on the face of the waveguide at which the light emerges.

2. (Currently amended) An illuminator system according to claim 1, in which eachthe light

source comprises<del>consists of</del> one or more addressable rows of elements, and the scanning means

includes a circuit for addressing these rows of elements.

3. (Currently amended) An illuminator system according to claim 2, in which the light from

the one or more rows of elements is collimated into the edge of the display-waveguide by a

cylindrical mirror-(5).

4. (Currently amended) An illuminator system according to claim 2, in which the light from

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the one or more rows of elements is collimated into the edge of the display-waveguide by a

further waveguide (8).

5. (Currently amended) An illuminator <u>system</u> according to claim 2, in which the <u>one or</u>

more rows of elements comprises a plurality of are LEDs.

6. (Currently amended) An illuminator system according to claim 1, further including a

filmsheet (6) for guiding the emerging light emerging from the face of the waveguide towards

athe normal to the face of the display-waveguide.

7. (Currently amended) A display comprising an illuminator system according to claim 1,

used as a backlight, and a flat-panel modulator over the display-waveguide.

8. (Currently amended) A display according to any claim 7, in which the modulator is a

liquid-crystal display.

9. (Currently amended) A display according to claim 2, in which athe scanning addressing

circuit is synchronized with the row addressing circuit of the LCD.

10. (New) An illuminator system according to claim 1, wherein the waveguide is

geometrically tapered.

11. (New) An illuminator system according to claim 1, wherein the waveguide is optically

tapered.

12. (New) A method for illuminating a flat-panel display, comprising:

a) injecting light from a light source of a plurality of light sources at an injection angle

into an edge of a tapered waveguide that is co-extensive with the display, wherein the injected

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light emerges from a position on a face of the waveguide based on the injection angle of the light

source;

b) scanning light emerging from the position on the face of the waveguide onto a portion

of the display, wherein a position of the portion of the display corresponds to the position on the

face of the waveguide;

c) switching off the light source; and

d) sequentially repeating steps a) - c) for one or more other light sources of the plurality

of light sources, wherein each of the plurality of light sources corresponds to a different injection

angle, so that different portions of the display are illuminated in turn as each light source injects

light into the edge of the waveguide.

13. (New) A method according to claim 12, wherein each light source comprises one or more

addressable rows of elements.

14. (New) A method according to claim 13, wherein light from the one or more rows of

elements is collimated into the edge of the waveguide by a cylindrical mirror.

15. (New) A method according to claim 13, wherein the light from the one or more rows of

elements is collimated into the edge of the waveguide by a further waveguide.

16. (New) A method according to claim 13, wherein the one or more rows of elements

comprises a plurality of LEDs.

17. (New) A method according to claim 12, wherein the scanning further comprises guiding

light emerging from the face of the waveguide towards a normal to the face of the waveguide.

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